



DEPARTMENT OF THE NAVY  
NAVAL AIR SYSTEMS COMMAND  
NAVAL AIR SYSTEMS COMMAND HEADQUARTERS  
WASHINGTON, DC 20361 -0001

IN REPLY REFER TO

NAVAIRINST 5600.5B  
AIR-5112  
20 Mar 90

NAVAIR INSTRUCTION 5600.5B

From: Commander, Naval Air Systems Command

Subj: SYSTEM FOR PREPARATION AND ISSUANCE OF INTERIM CHANGES TO  
NATOPS FLIGHT MANUALS

Ref: (a) OPNAVINST 3710.7M of 31 Jul 87  
(b) NAVAIRNOTE 5215 of 28 Oct 82  
(c) NAVAIRINST 5400.70B of 24 Jun 88  
(d) NAVAIRNOTE 5400 of 7 Mar 89

Encl: (1) Sample Interim Change Message (Form DD 173/2)  
(2) Sample Form NAVAIR 5602/1A  
(3) Sample Form NAVAIR 5602/1C

1. Purpose. To establish policy and procedures for issuing rapid and effective interim changes to the Naval Air Training and Operating Procedures Standardization (NATOPS) Flight Manuals within the Naval Air Systems Command (NAVAIR).

2. Cancellation. This instruction supersedes NAVAIR Instruction 5600.5A of 9 July 1976. Since this is a major revision, changes are not indicated.

3. Policy. It is the policy of Naval Air Systems Command Headquarters (NAVAIRHQ) that technical personnel will support the NATOPS program to ensure that the NATOPS Flight Manual contains complete and up-to-date instructions, and provide timely replies to recommended changes to the manual. Instructions for issuing and utilizing operating instructions for naval aircraft are provided in reference (a).

4. Definitions

a. NATOPS Flight Manual - A manual for a specific model piloted aircraft which contains standardized ground and flight operating procedures, training requirements, limitations, and technical data necessary for the safe and effective operation of the aircraft.

b. NATOPS Flight Manual Supplement - A manual supplement which contains information that is classified, covers special missions, or is applicable to only one crewmember.

c. NATOPS Pocket Checklist - A condensed version of the procedural portion of the NATOPS Flight Manual.



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d. Revision and Change

(1) Revision - A revision is a subsequent edition of a NATOPS Flight Manual, Supplement, or Pocket Checklist which supersedes the preceding edition.

(2) Change - A change consists of replacement and/or added pages issued on an as required basis to modify, add, and/or delete information contained in basic manual, supplement, or checklist.

(3) Interim Change - An interim change is a change issued by rapid means to promulgate vital technical or procedural changes for insertion in the NATOPS Flight Manual. Changes concerning aircraft equipment limitations and technical data are issued by NAVAIRHQ per this instruction. Procedural changes are issued by the Chief of Naval Operations per reference (a).

5. Procedures. Cognizant technical personnel will prepare interim change messages as follows:

a. When necessary to publish information of an urgent or safety-of-flight nature, naval messages will be typed on form DD 173/2, Joint Message Form. The messages will be complete in themselves and should not require the user to refer to another source for the approved text. Interim change messages will be in the format of figure A-5 of reference (a). Enclosure (1) is a sample. Advisory group members are responsible for readdressal of interim change messages to their subordinate commands.

b. When an interim change requiring charts or diagrams is necessary; enclosures (2) and (3), NAVAIR 5602/1A, NATOPS Flight Manual Interim Change Number and NAVAIR 5602/1C NATOPS Pocket Checklist Interim Change Number, are to be utilized. Copies are printed and distributed to each holder of the NATOPS Flight Manual. When an advanced distribution is required, sufficient copies are printed in NAVAIRHQ and a limited distribution is made to the appropriate NATOPS Advisory Group members per reference (a). The members in turn forward these copies to their subordinate commands for information and action pending receipt of the regular interim change through normal channels. Interim changes are placed in front of the NATOPS Flight Manual until the information is incorporated into an approved revision or change. An interim change summary indicating the status of each interim change is provided in each NATOPS Flight Manual.

c. When an interim change to the NATOPS Flight Manual affects information in the NATOPS Pocket Checklist, a separate interim change number will be assigned. These two actions may be on the same message and distribution of message interim changes will be per reference (b).

6. Action

a. Assistant Program Managers for Systems and Engineering (APM(S&E)) will

(1) prepare the interim change message;

(2) obtain the concurrence of the cognizant functional division in the Systems and Engineering Group (AIR-05) and the safety officer (AIR-09F);

(3) obtain and note the verbal concurrence of the NATOPS Model Manager; and

(4) determine if NAVAIR generated changes require Chief of Naval Operations (CNO) approval from the CNO program sponsor.

b. Safety Office (AIR-09F) will concur for release of all interim changes referred to in this instruction, except those aircraft models that have been transferred to Program Manager Air (Field) (PMA(F)) as defined by references (c) and (d).

c. Flight Clearance Officer (AIR-530B) will concur for release of all interim changes effecting cognizant areas of the NATOPS, and will approve and release interim changes for those models that have been transferred to field management as defined in reference (c).

d. Technical Data Management Section (AIR-51123) will assign interim change numbers and provide the date of the latest NATOPS Flight Manual and changes thereto. Interim change numbers will not be assigned until the chop cycle is complete.

e. Systems Engineering Management Division (AIR-511) will approve and release (to the fleet or CNO, as appropriate) all interim changes referred to in this instruction, except those aircraft models that have been transferred to field management offices, as defined by reference (c).

f. Head of field activities that have APM's (S&E) will provide prompt action on all interim changes received for comment. The response to the changes will be coordinated by phone with appropriate NAVAIR support divisions/activities to include AIR-09F.

g. Naval Air Technical Services Facility will furnish mailing labels to the Navy Publications and Printing Service Office per current distribution lists, within 14 working days of request.

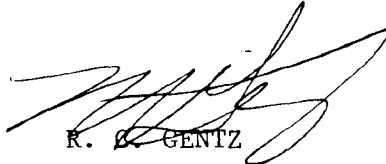
NAVAIRINST 5600.5B

20 Mar 90

7. Forms

a. NAVAIR Field Activities. DD 173/2, Joint Message Form, S/N 0102-LF-000-1735 are available in the Navy supply system and may be requisitioned per NPFC P-2002D.

b. NAVAIRHQ. DD 173/2, NAVAIR 5602/1A, NATOPS Flight Manual Interim Change Number and NAVAIR 5602/1C NATOPS Pocket Checklist Interim Change Number are available in the NAVAIRHQ Forms Stock Room.



R. G. GENTZ

Distribution: FKA1A (established quantity); others 2 copies  
SNDL: FKA1A (Deputy Commanders, Assistant Commanders, Comptroller, Command Special Assistants, Program Directors, Designated Program Managers, Directorate Directors, and Office and Division Directors); FKR1B; FKR7C

Copy to: (2 copies each unless otherwise indicated)  
SNDL: C84B (Morgantown (1 copy)); FKA1A (AIR-07D A/L (1 copy), AIR-71232 (10 copies), AIR-71233B (40 copies), AIR-05 (1 copy), AIR-51123 (5 copies)); FKM27 (NPPSO-NDW C/L)

Stocked: Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120-5099

JOINT MESSAGEFORM				SECURITY CLASSIFICATION			
				UNCLASSIFIED			
PAGE	DTG-RELEASE TIME	PRECEDENCE	CLASS	SPECAT	LMF	CIC	ORIG/ISS IDENT
DATE TIME	MONTH	YR	ACT	INFO			
01 of 06			RR	UUUU			0820600 TWL
MESSAGE HANDLING INSTRUCTIONS							
<p>FROM: COMNAVAIRSYS COM WASHINGTON DC</p> <p>TO AIG ONE ONE ONE EIGHT THREE</p> <p>AIG ONE SIX FIVE</p> <p>INFO COMASWINGPAC SAN DIEGO CA</p> <p>COMSTRKFIGHTWINGSLANT CECIL FIELD FL</p> <p>COMSEASTRIKE WING ONE CECIL FIELD FL</p> <p>NAVAIRTECHSERVPAC PHILADELPHIA PA</p> <p>UNCLAS //N13034//</p> <p>SUBJ: INTERIM CHANGE TO S-3A AND S-3B AIRCRAFT NATOPS PUBLICATIONS</p> <p>A. NAVAIR 01-S3AAA-1 (S-3A NFM) DTD 15 SEP 87 W CHANGE 1</p> <p>B. NAVAIR 01-S3AAA-1B (S-3A PCL) DTD 15 SEP 87 W CHANGE 1</p> <p>C. NAVAIR 01-S3AAB-1 (S-3B NFM) DTD 15 JUN 88</p> <p>1. THIS IS INTERIM CHANGE NR 77 TO REF A. PURPOSE IS TO MODIFY SECTIONS 1, 3, 5, AND 11 FOR MANUEVER FLAP APPROACH AIRSPEEDS AND FLYING QUALITIES, AND TO CHANGE MAXIMUM NO FLAP TRAP WEIGHT. CHANGES TO S-3 AIRCRAFT RECOVERY BULLETINS ISSUED SEPCOR.</p> <p>A. SECTION I, PG 1-317, CARRIER LANDING WEIGHTS:</p> <p>(1) LESS THAN TAKEOFF FLAPS - CHANGE "34,000 LBS" TO "36,000 LBS".</p> <p>(2) BARRICADE ENGAGEMENTS: PARTIAL OR NO FLAPS - CHANGE "34,000</p>							
DISTR:  51179 PRA244 5302 5512 5308 5301 530PL.0 05 07F FC							
Y. LINTWICUM(51179)2 X61162 03-23-87				SPECIAL INSTRUCTIONS			
TYPED NAME, TITLE, OFFICE SYMBOL, AND PHONE H. LEHMAN, AIR-5308, X23547				SIGNATURE			
SIGNATURE				SECURITY CLASSIFICATION		DATE TIME GROUP	
				UNCLASSIFIED			

DD FORM 173/2 (OCR)

PREVIOUS EDITION IS OBSOLETE  
BN 0100-LP-000-1730

100-500-1000-1000

S A M P L E

Encl (1)

5/6B

5/6B/140

A1-H60BB-NFM-700	<b>NATOPS</b>	14 MARCH 1989
<b>FUNCTIONAL CHECKFLIGHT CHECKLIST INTERIM CHANGE NO. 1</b>		
Navy Model	SH-60B	Aircraft
PUBLISHED BY DIRECTION OF THE COMMANDER, NAVAL AIR SYSTEMS COMMAND		
<small>NOTICE: NATIONAL SECURITY INFORMATION UNAUTHORIZED DISCLOSURE SUBJECT TO CRIMINAL SANCTIONS Copies of and extracts from this document may not be made except for U.S. Military use without specific approval of the Commander, Naval Air Systems Command This notice applies only to Classified documents</small>		
<b>Of paramount interest to pilots. To be read by all pilots operating these aircraft.</b>		

1. CANCELLATION: None
2. PURPOSE: To revise engine and transmission limits to allow for use of T700-GE-401C engines and the improved durability gearbox (IDGB).
3. ACTION: Change the SH-60B NATOPS Flight Manual NAVAIR A1-H60BB-NFM-700 of 1 Sep 87 with Change 1 dtd 15 Dec 87 as follows:
  - a. Page 85, figure 9, add "(401)" to the end of the title.
  - b. Page 86, figure 10, add "(401)" to the end of the title.
  - c. Page 88, figure 12, add "(401)" to the end of the title.
  - d. Insert the attached figures, 9a, 10a, and 12a, as new pages 85a, 86a, and 88a, respectively.
4. POC: Kenneth U. Caniglia, NAVAIR AIR-5115B1, (202) 746-1196.

THIS CHANGE APPLIES TO THE FOLLOWING AIRCRAFT: SH-60B	RELEASED FOR PRINTING (Signature) <i>Harry P. L... 14 Mar 89</i>
NAVAIR FORM 5602/1A (Rev. 8-78)	Previous editions of this form are obsolete

S A M P L E

A1-H60BB-NFM-700

**MINIMUM ACCEPTABLE TORQUE**  
98%  $N_r$  (DROOPED 2%) 110 KIAS (MINIMUM)  
ANTHICE OFF CONTINGENCY POWER OFF EDS OFF

MODEL: SH-60B  
ENGINE: T700-GE-401C

FUEL: JP4, JP5  
FUEL DENSITY: 6.558 LB/GAL

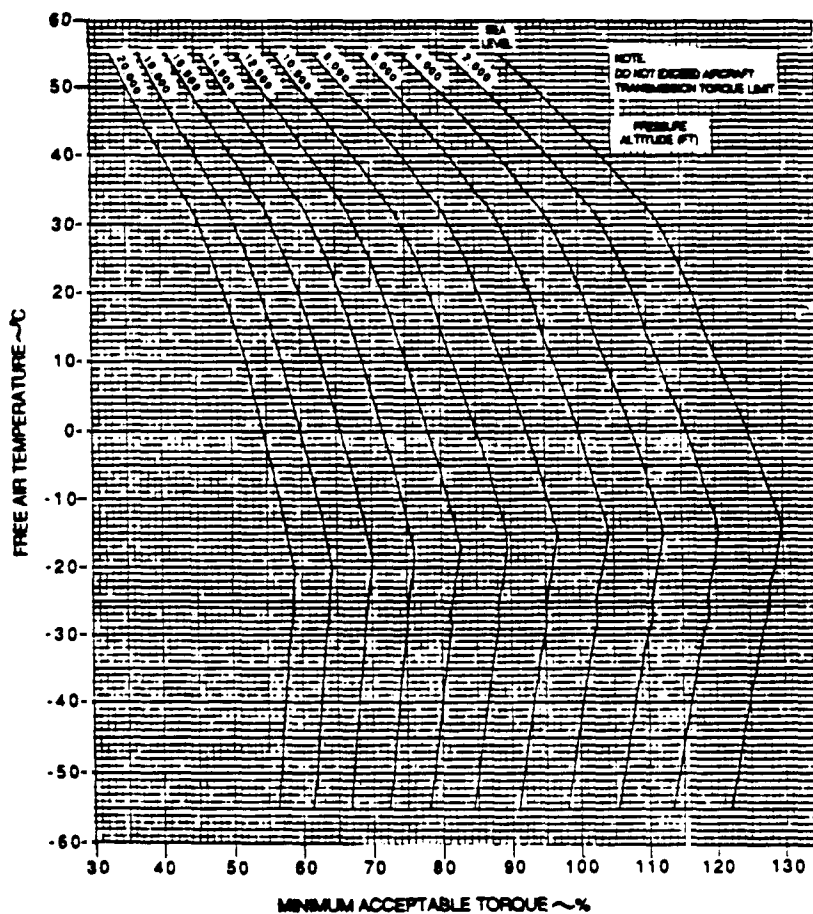


Figure 9a. Minimum Acceptable Torque (401C)

85a

IC 4

A1-H60BB-NFM-500	<b>NATOPS</b>	14 MARCH 1989
<b>POCKET CHECKLIST INTERIM CHANGE NO.</b>		23
<b>Navy Model SH-60B Aircraft</b>		
PUBLISHED BY DIRECTION OF THE COMMANDER, NAVAL AIR SYSTEMS COMMAND		
<small>NOTICE: NATIONAL SECURITY INFORMATION UNAUTHORIZED DISCLOSURE SUBJECT TO CRIMINAL SANCTIONS Copies of and extracts from this document may not be made except for U. S. Military use, without specific approval of the Commander, Naval Air Systems Command This notice applies only to Classified documents.</small>		
<b>Of paramount interest to pilots. To be read by all pilots operating these aircraft.</b>		

1. CANCELLATION: None
2. PURPOSE: To revise engine and transmission limits to allow for use of T700-GE-401C engines and the improved durability gearbox (IDGB).
3. ACTION: Change the SH-60B NATOPS Flight Manual NAVAIR A1-H60BB-NFM-500 of 1 Sep 87 as follows:
  - a. Page 7, reverse the order of items 3.b and 3.c for both the High Side and Low Side Failures
  - b. Page 8, add "(401)" after the title.
  - c. Page 10, add "(401)" after the title.
  - d. Page 110, add "(401)" after the title.
  - e. Page 172, for the Turbine Gas Temperature (TGT) limits, add "(401)" after the title. Additionally, add the following under the existing limits:

" 401C TGT LIMITS  
810°C continuous  
810°-851°C Intermediate power  
851°-903°C 2.5 minutes  
903°-949°C 12 seconds "
  - f. Page 174, for the Torque limits:
    - (1) Add "(134% with IDGB)" below the Single-engine flight (continuous) torque limit.

THIS CHANGE APPLIES TO THE FOLLOWING AIRCRAFT: SH-60B	RELEASED FOR PRINTING (Signature) <i>Henry P. Llanos</i> 17 Mar 89
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NAVAIR FORM 5602/IC (8-75) (4-410)

S A M P L E

Encl (3)

9

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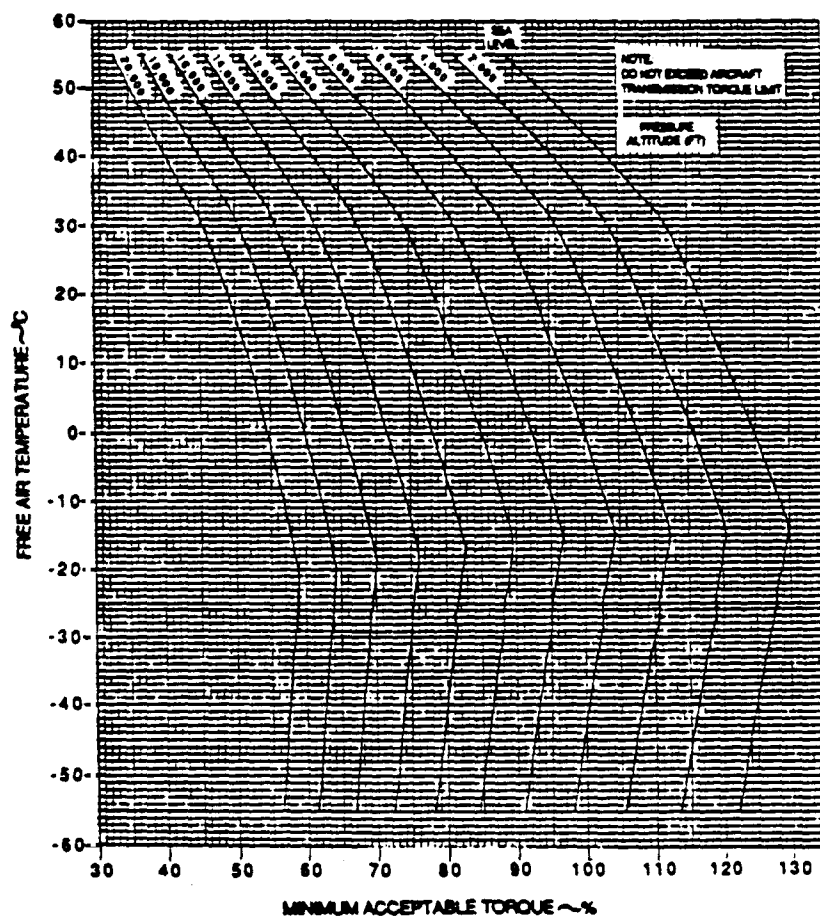




**MINIMUM ACCEPTABLE TORQUE**  
98% N<sub>r</sub> (DROOPED 2%) 110 KIAS (MINIMUM)  
ANTICE OFF CONTINGENCY POWER OFF ECS OFF

MODEL: SH-60B  
ENGINE: T700-GE-401C

FUEL: JP4, JP5  
FUEL DENSITY: 6.5/6.8 LB/GAL



Minimum Acceptable Torque (401C)

IC 23

8a